PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

W.4814

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ETUDES & PRODUCTIONS SCHLUMBERGER 1. no Henri Becquerel - RP 202 F-92742 Clarad Cedex FRANCE



P01

NOTFICATION OF THANSMITTAL OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(PCT Rule 71.1)

Date of maling

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11/11/2008

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IMPORTANT NOTIFICATION

nismalonal appraision No. PCTASP20034010854 idemoliuma Bing date (dayawarkiyasi 22.09.2004

Procey date (cayaname)year) 07.10.2003

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SERVICES PETROLIERS SCHLUMBERGER et al.

- The applicant is tiereby notified that this international Profit bary Examining Authority transmits herewith the international profettingly report on patientability and its annexes: if any, established on the international application.
- A copy of the report sod its armexes. If any is being transmitted to the international Bureau for communication to all the elected Offices.
- 4. Where required by any of the elected Offices the international Sureau will prepare an English translation of the report (but not of dry seriexes) and will beneaut such translation to those Offices.

4 REMINDER

The applicant must enter the national phase bixlore each elected Oifice by performing certain acts (fling translations and paying national ties) within 30 months from the profity data (or later in some Oifices). (Anicle 39(1)) (see size this reminder sent by the International Bureau with Form PCTA(C(1)).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of siny agreese to the international prefirmary report on patentability. It is the applicants responsibility to prepare and femish such translation directly to each elected Office according

Firm tirther details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide

The applicants attention is drawn to Article 33(6), which provides that the orders of novelry, inventive clap and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that tany Contracting State may apply additional or different critical for the purposes or deciding whither, in the State, the obtained inventions is materiable or not (see also Article 27(5)). Such auditional orders may relate, for example, to example as from pateriable y requirements for enabling disclosure, dainy and a apport to the diagnet.

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Palish Cooperation Treaty):

(PCT Article 36 and Rule 70)

FOR FURTHER ACTION

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ONFATENTABILITY

International application No. PCT/EP/2004/010658

| Box No. I Basis of the report |
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| ☐ publication of the international application (under Nule 19.3) ☐ international preliminary examination (under Nules 55.2 and/or 56.5) |
| 2. Vith regard to the elements* of the international application, this report is based on (replacement sheets which never been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as programy their and ere not emissed to this report; |
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| 4. C. This report has been established as it (some of the amendments annexed to this report and lighed below that not been made surjust her flave been considered to go beyond the disclosure as filled) as indicated in this Supplemental Res (Pulls 70.2(c)). C. the description pages C. this discounts has |
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

I/remational application No.
2 PCT/EP2004/01/0558

Box No. V. Reasoned statement under Article 35(2) with regard to novelly, inventive step or industrial applicability; citations and explanations supporting such statement.

Statement

Novaly (N) Yes: Caims 1-13

No: Claims

frivertive step (IS) Yes: Claims

No: Claims 1-19

Industrial applicability (IA) Yes: Claims 1936

No: Claims

Class and explanations (Rule 70.7):

See separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PC1/EP2004/010658

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following documents are referred to in this communication: the numbering will be adhered to in the rest of the procedure.

- D1: US-8-6 422 3151 (DEAN QUENTON WAYNE) 23 July 2002
- D2: US 2002/159439 A1 (MARSH ANITA B ET AL) 31 October 2002.
- D3: US 2002/180798 A1 (MAHONEY MARGARET MARY ET AL) 5 December 2002
- D4: US-B-6 202 2081 (HOLIDAY JR MATTHEW R) 13 March 2001
- 05: US 2002/174010 A1 (RICE JAMES L) 21 November 2002
- The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of claim 1 and 8 does not involve an inventive step in the sense of Article 33(3) PCT.
- 1.1) Document D1 discloses (cf. column 11 line 15 29; column 5 line 36 39)
 a subsea controller located under the sea level for managing a plurality of tools in a
 subsea well installation. This subsea controller can have executable programs downloaded
 from PCS/surface controller. D1 describes the prior ait described in the application (page 3
 paragraph 11).
- 1.2) The problem to be solved by the present invention may be regarded as (see application; page 6 paragraph 29-31); Avoid losing data (by stopping the controllar) from the surveys according to the

Avoid losing data (by stopping the controller) from the subsea controller while uploading the subsea controller with updated software.

1.3) Confronted with this problem the man skilled in the art of subsea engineering will nocessarily consult a man skilled in the art of programme loading. An obvious solution to the problem is dynamic download which means that a software can be downloaded without slopping the execution of the existing program for example by using a virtual machine. Such dynamic loading is described in D2 (lig. 4, paragraph 5 - 12) where an application is

PCT/EP2004/010658

downloaded and executed via a virtual machine. The main goal of D2 is to allow dewnload follow comboder while the controller is operational. This is done by using a JVM which executes (see paragraph 51 & 52) the downloaded application module just like in the application. Note that one of the basic of JVM is to allow dynamic operations.

- 1.4) Therefore the solution proposed in claim 1 and 8 of the present application cannot be considered as involving an inventive step (Anicle 33(1) & 33(3) PCT)
- 2) Dependent claims 2-7 and 9-13 do not appear to contain any additional features which, in combination with the features of any claim to which they refer, meet the requirements of the FCT with respect to nevelty and/or inventive step, the reasons being as follows:

claims 2.3,9,10 D3 discloses a native application with an interace to enable two-ways access with an application

ciaims 4.12 : D4 defines a main mamory and a virtual machine memory distinct from each. Other

claim 5 . Software protection using a key code is known. See D5.

claims 6, (3); it is obvious to include a driver in the software update if a new tool is installed.

claim 7: D1 describe a subsea well installation.

claim #1 : D2 discloses dynamic loading.